

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
28 July 2005 (28.07.2005)

PCT

(10) International Publication Number
WO 2005/068850 A1

(51) International Patent Classification⁷: F15D 1/02,
D21F 1/02

(21) International Application Number:

PCT/SE2005/000027

(22) International Filing Date: 13 January 2005 (13.01.2005)

(25) Filing Language:

Swedish

(26) Publication Language:

English

(30) Priority Data:
0400085-7 16 January 2004 (16.01.2004) SE

(71) Applicant (for all designated States except US): METSO PAPER, INC. [FI/FI]; P O Box 1220, FIN-00101 HELSINGFORSS (FI).

(72) Inventors; and

(75) Inventors/Applicants (for US only): LUNDBERG, Jör- gen [SE/SE]; Idrottsgatan 21, S-856 43 Sundsvall (SE). MELANDER, Olof [SE/SE]; Norra vägen 39, S-856 50 SUNDSVALL (SE).

(74) Agent: BERGENSTRÄHLE & LINDVALL AB; P.O. Box 17704, S-118 93 STOCKHOLM (SE).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

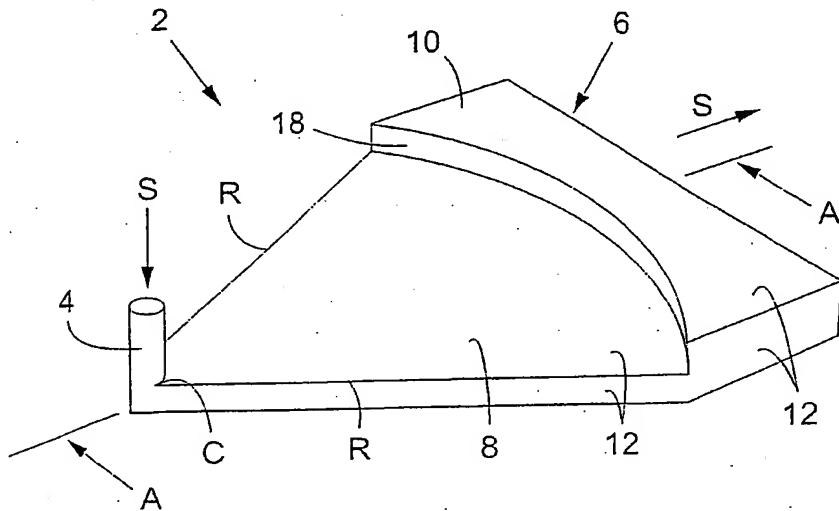
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD AND APPARATUS FOR TRANSVERSE DISTRIBUTION OF A FLOWING MEDIUM



(57) Abstract: The present invention relates to a method for achieving even transverse distribution and propagation of a flowing medium. The medium is supplied through a conduit (4) and is deflected during propagation in at least one distribution gap (14, 14', 14'', 14''') defined by a friction surface. The medium is deflected during diverging propagation along the distribution gap (14, 14', 14'', 14'''); the medium is conveyed via a passage (16) to an outlet gap (20) having a larger gap depth than the distribution gap; the medium is conveyed over an edge (18, 18', 18'', 18''') extending transverse the direction of the flow, and the edge (18, 18', 18'', 18''') is designed such that the friction surface obtain a propagation along the flowing path of the diverging medium that provides a substantially even and parallel flow of the medium along the outlet gap (20). The present invention also relates to an apparatus.

WO 2005/068850 A1